

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/07357

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> C07D309/12		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) Int.Cl <sup>7</sup> C07D309/12		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAPLUS (STN), CAOLD (STN), REGISTRY (STN), CASREACT (STN)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GERIN, Rene et al., Etude de la reaction de Prins entre des alcools $\beta$ -ethyleniques et le formaldehyde, Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences Chimiques, 1972, Vol.275, No.17, pages 957 to 959	1-21
A	HANSCHKE, E. et al., Zur Kenntnis der Prins schen Reaction, III. Mitteil.: Uber die Reaction von Allylcarbinol mit Aldehyden und Ketonen, Chem.Ber., 1955, Vol.88, pages 1053 to 1061	1-21
A	GERIN, Rene et al., Etude de la reaction de Prins entre des alcools $\beta$ -ethyleniques et des aldehydes. Synthèse de tetrahydropyrannols-4, Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences Chimiques, 1971, Vol.275, No.3, pages 254 to 256	1-21
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 15 August, 2003 (15.08.03)		Date of mailing of the international search report 02 September, 2003 (02.09.03)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/42232 A1 (Ube Industries, Ltd.), 14 June, 2001 (14.06.01), Full text & JP 2001-163867 A            & JP 2001-226370 A & AU 2001-17348 A            & EP 1247807 A1 & US 2003/0004359 A1        & CN 1409707 A	1-21
A	NISHIURA, Kazuo et al., The Reaction of Olefins with Chloroalkoxyalkanes and Formic Acid in Ether, Bull.Chem.Soc.Jpn., 1980, Vol.53, pages 1376 to 1380	1-21
A	FUKUI, Kenichi et al., Reaction of Propylene with Formaldehyde, Bull.Japan Petrol.Inst., 1961, Vol.3, pages 27 to 32	1-21